

CORROSION PREVENTION ON COPPER

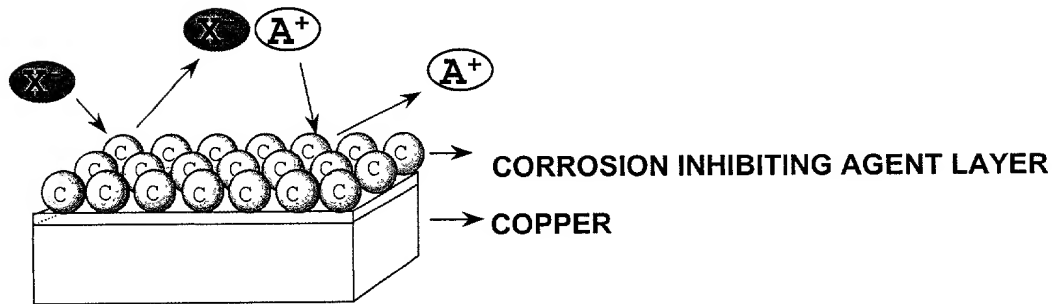
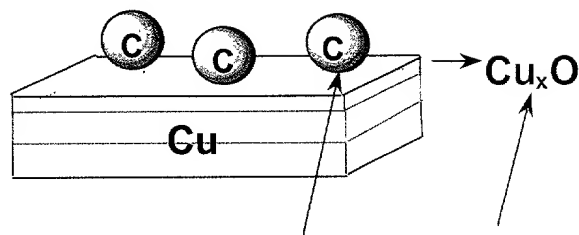


FIGURE 1

CONTAMINATION TEST*



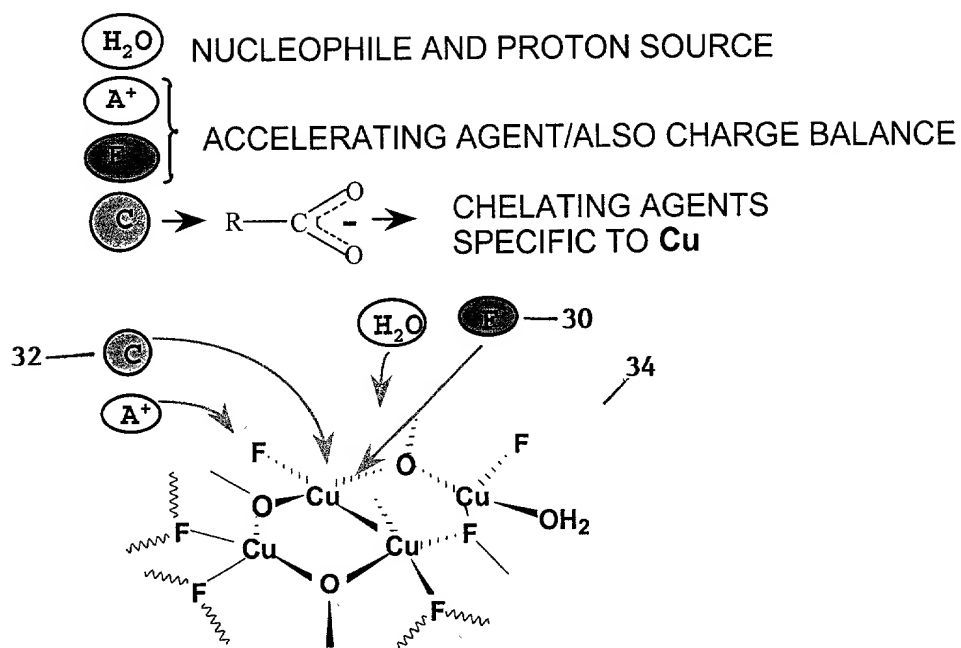
| SAMPLE** | Cu (atoms/cm ²) | F (atoms/cm ²) | C (atoms/cm ²) | Cu _x O (Å) |
|---|-----------------------------|----------------------------|----------------------------|-----------------------|
| CONTROL | 1.6 x 10 ¹⁰ | 3.3 x 10 ¹³ | 7.5 x 10 ¹³ | 42 |
| Matrix 2 + IMINODIACETIC ACID INHIBITOR | 8.5 x 10 ⁹ | 5.1 x 10 ¹³ | 1.5 x 10 ¹³ | 15 |

* Blanket Cu and Si Films Processed Together,
20 mL of Chemical (25 °C @ 15 min, DI Water Rinse)

** Average of 3 Points

FIGURE 2

TO BE USED IN THE CIP REPORT



INSOLUBLE INORGANIC SLURRY AND RESIDUES

FIGURE 3

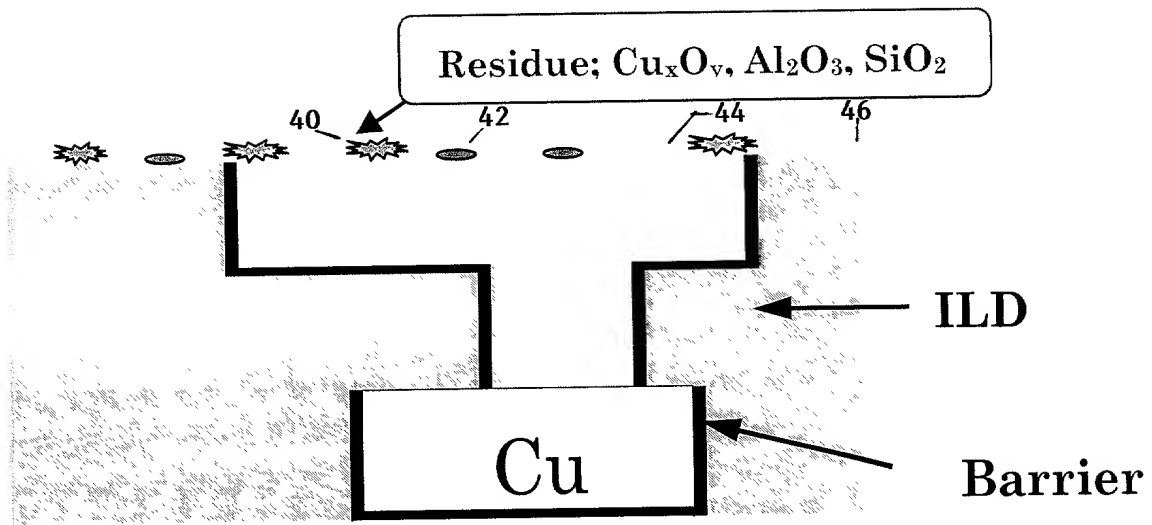


FIGURE 4

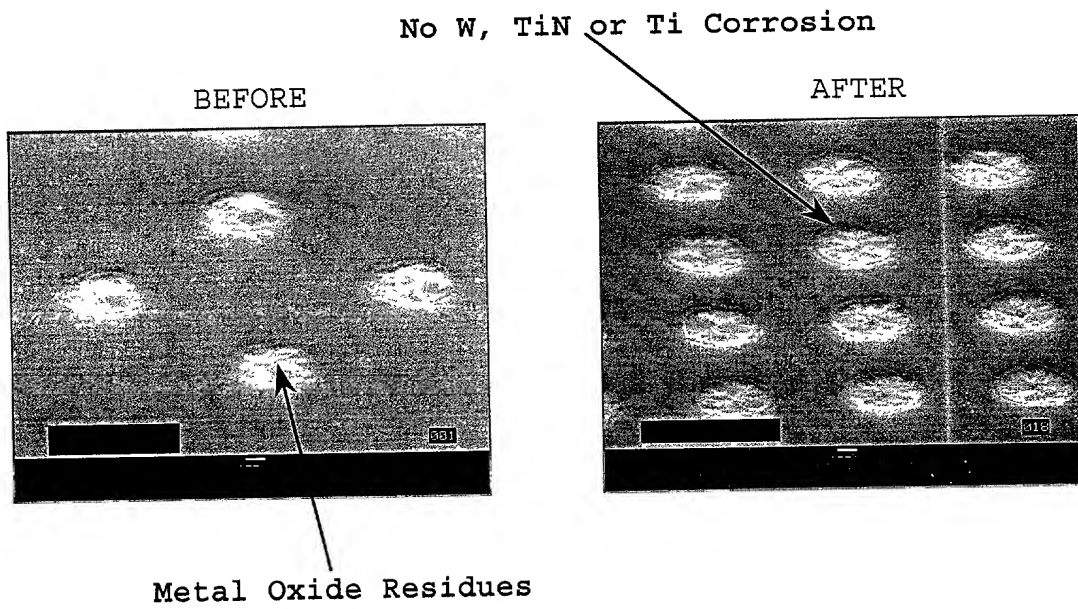


FIGURE 5

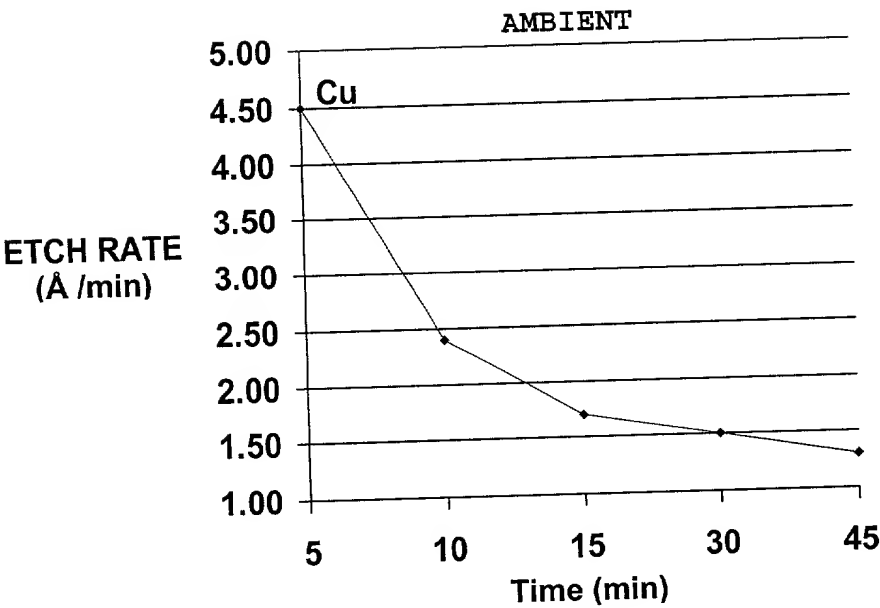


FIGURE 6